

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1619	(computer processor control adj unit) same (switch FET transistors) near (rectifier diode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:44
L2	229	1 same (load solenoid electric adj part)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:38
L3	507109	(computer processor control adj unit) same (on off conducting nonconducting open close state)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:46
L4	99776	3 same (switch FET transistors)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:47
L5	6638	4 same solenoid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:47
L6	31371	3 same control adj signal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:47
L7	9894	6 same (switch FET transistors)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:47
L8	542	7 same solenoid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:48
L9	20	8 same (drive adj circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:50
L10	118828	(drive adj circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:50
L11	7798	10 same (solenoid valve)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:50
L12	12	11 same (switch transistors FET\$1) near (diodes)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:50

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S76	460	failure same diagnosis same switch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/11 18:44
S77	1642	(P transistor) same (resistor) same (Vss positive plus) same (line battery terminal) same (FET)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/11 18:41
S78	8	S77 same (second) near resistor same (N transistor) same (third) near resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/11 18:39
S79	53	S76 same (drive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/11 18:46
S80	873	reverse same protection with connection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/11 19:03
S81	140	S80 same (detect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/11 19:28
S82	2146386	(solenoid valve inductive adj load)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/11 19:32
S83	81974	S82 same (first) with second with third (FET) with (diod\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/11 19:34
S84	2202	S83 same (battery)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/11 19:35
S85	217	(failure diagnos\$3) same (first second third) same (FET transistor\$1) same (first second) near (voltage threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/12 17:19
S86	16	S85 same (inductive adj load solenoid valve)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/12 17:20

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S87	41	("3832010" "3864608" "4123116" "4169401" "4266261" "4452210" "4516185" "4630165" "4661766" "4737882" "4764840" "4812945" "4878147" "4905120" "4949215" "4978865" "5053911" "5115395" "5159522" "5202813" "5304935" "5347419" "5404303" "5422780" "5430601" "5442515" "5559438" "5645097" "5647387" "5650909" "5701870" "5703748" "5818678" "5818679" "5910890" "5915799" "6019441" "6056000" "6061224" "6157095" "6208498").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/12 17:25
S88	8149	(drive adj circuit) same (inductive adj load valve solenoid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:43
S89	8185	(drive adj circuit) same (inductive adj load valve solenoid electric adj part\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:26
S90	34	S89 same first with (transistor FET) with (diode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:33
S91	137	(switch\$3) same (on off open closed conduction shutoff) same drain same (second) near (transistor) same (solenoid valve load)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:36
S92	3	S91 same (computer control adj unit processor) same (transistor\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:38
S93	0	S88 same (third) near (transistor FET) with diode same (reverse) with connection same (protect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:42
S94	5	S88 same (transistor FET) with diode same (reverse) with connection same (protect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:40
S95	0	S88 same (third) adj (transistor FET) same (parasitic adj diode) same (reverse) with connection same (protect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:43
S96	2146710	(inductive adj load valve solenoid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:43
S97	0	S96 same (third) adj (transistor FET) same (parasitic adj diode) same (reverse) with connection same (protect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:43

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S98	2	S96 same (transistor FET) same (parasitic adj diode) same (reverse) with connection same (protect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:45
S99	8149	drive adj circuit same (valve solenoid inductive adj load)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:46
S100	243	S99 same (FET\$1 transistor\$1) with (diod\$1 rectifier\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:47
S101	59	S100 same (power adj source battery DC)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:50
S102	26	(switch\$3) same second adj (FET transistor) same (on off close open shutoff conduction) with drain same (battery plus adj terminal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 17:55
S103	8	failure adj diagnosis adj switch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 18:05
S104	406	361/139	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/12 18:18
S105	0	361/139.ccls. reverse adj connection same protection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/12 18:18
S106	1	361/139.ccls. reverse adj connection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/12 18:19
S107	0	361/139.ccls. first with second with third with (FET\$1 transistor\$1) with (diod\$1 rectifier\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/12 18:20
S108	0	361/139.ccls. (first with second with third with (FET\$1 transistor\$1) with (diod\$1 rectifier\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/12 18:20
S109	0	361/139.ccls. (first second third) same (FET\$1 transistor\$1) with (diod\$1 rectifier\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/12 18:21

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S11 0	11	361/139.ccls. (first or second or third) same (FET\$1 or transistor\$1) with (diod\$1 or rectifier\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/12 18:22
S11 1	3	"6,493,204"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 11:11
S11 2	41	("3832010" "3864608" "4123116" "4169401" "4266261" "4452210" "4516185" "4630165" "4661766" "4737882" "4764840" "4812945" "4878147" "4905120" "4949215" "4978865" "5053911" "5115395" "5159522" "5202813" "5304935" "5347419" "5404303" "5422780" "5430601" "5442515" "5559438" "5645097" "5647387" "5650909" "5701870" "5703748" "5818678" "5818679" "5910890" "5915799" "6019441" "6056000" "6061224" "6157095" "6208498").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 11:11
S11 3	1	("6493204").URPN.	USPAT	OR	ON	2006/03/13 11:19
S11 4	1	("6493204").URPN.	USPAT	OR	ON	2006/03/13 11:20
S11 5	20491	(control adj unit microprocessor control adj signal PWM) same (inductive adj load valve solenoid coil) same (transistor\$1 switches)	USPAT	OR	ON	2006/03/13 11:30
S11 6	0	S115 same third near (FET or field adj effect adj transistor) with (diode rectifier parasitic) same (battery power adj source positive adj terminal)	USPAT	OR	ON	2006/03/13 11:29
S11 7	1	S115 same third near (FET or field adj effect adj transistor) with (diode rectifier parasitic)	USPAT	OR	ON	2006/03/13 11:31
S11 8	79093	(microprocessor control adj signal) same (load valve solenoid coil)	USPAT	OR	ON	2006/03/13 11:31
S11 9	4	S118 same third near (FET or field adj effect adj transistor) with (diode rectifier parasitic)	USPAT	OR	ON	2006/03/13 11:33
S12 0	0	361/139.ccls. and (third near (FET or field adj effect adj transistor)) with (diode rectifier parasitic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/13 13:26
S12 1	0	361/160.ccls. and (third near (FET or field adj effect adj transistor)) with (diode rectifier parasitic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/13 12:25
S12 2	0	361/160.ccls. and (second near (FET or field adj effect adj transistor)) with (diode rectifier parasitic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/13 12:26
S12 3	995	361/160.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/13 12:26
S12 4	29	361/160.ccls. and (second adj transistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 12:31

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S12 5	7	361/160.ccls. and (second adj transistor) with diode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 12:33
S12 6	0	361/160.ccls. and (transistors) with (rectifier\$1 diod\$2) and (reverse adj protection) and connection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 12:54
S12 7	0	361/160.ccls. and (transistors) with (rectifier\$1 diod\$2) and (reverse adj protection)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:28
S12 8	0	361/160.ccls. and (reverse adj protection)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 12:59
S12 9	132	361/160.ccls. and (transistors) with (rectifier\$1 diod\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 12:54
S13 0	1	361/160.ccls. and (reverse adj connection) and protection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:00
S13 1	0	361/160.ccls. and (reverse adj connection adj protection)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:25
S13 2	51	(reverse adj connection adj protection)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:11
S13 3	9	S132 same (FET\$1 transistors)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:02
S13 4	42	S132 not S133	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:06
S13 5	1	(reverse adj connection) same (protection) same (detect\$3) same failure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:15
S13 6	17325	(reverse) same (protection)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:16

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S13 7	1535	S136 same (transistors) with (rectifier\$1 diode\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:17
S13 8	532	S137 same (load valve coil solenoid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:18
S13 9	14	S138 same (detect\$3 diagn\$5) same (fail\$5) same (FET transistor\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:28
S14 0	7	361/160.ccls. and reverse same protection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:25
S14 1	0	361/139.ccls. and (detect\$3 diagn\$5) same (fail\$5) same (FET transistor\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/13 13:27
S14 2	0	361/139.ccls. and (detect\$3 or diagn\$5) same (fail\$5) same (FET or transistor\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/03/13 13:27
S14 3	0	360/160.ccls. and (diagn\$5 fail\$5) same (switch FET transistor\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:30